

THIS WEEK'S CONTESTS
Compiled by Bruce Horn, WA7BNM

November 5 - 12, 2018 Edition

The web versions of this contest calendar can be found at: <https://www.contestcalendar.com/> You can also access a text version of the current weekly calendar at: <https://www.contestcalendar.com/weeklycal.txt>

Please send corrections and additions directly to me. The web calendars are updated as new contest information is received. If you wish to unsubscribe, please notify me and you'll be immediately removed from the mailing list.

73 de Bruce, WA7BNM (bhorn@hornucopia.com)

This e-mail is divided into three sections:

- Details of this week's contests
- List of following week's contests
- Contest log submittal addresses and deadlines for recent contests

THIS WEEK'S CONTESTS:

ARRL Sweepstakes Contest, CW: 2100Z, Nov 3 to 0300Z, Nov 5

Geographic Focus: United States/Canada

Participation: United States/Canada

Mode: CW

Bands: 160, 80, 40, 20, 15, 10m

Classes: Single Op (QRP/Low/High)

Single Op Unlimited (QRP/Low/High)

Single Op Overlay: (Limited Antennas)

Multi-Single (Low/High)

School Club (College/Technical/Secondary)

Max operating hours: 24 with at least 30 minute off times

Max power: HP: >100 watts

LP: 100 watts

QRP: 5 watts

Exchange: Serial No. + Precedence (Q/A/B/U/M/S) + [your call sign] + Check +

ARRL/RAC Section

Work stations: Once only

QSO Points: 2 points per QSO

Multipliers: Each ARRL/RAC section once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 0300Z November 12, 2018

E-mail logs to: (none)

Upload log at: <http://contest-log-submission.arrl.org>

Web-to-Cabrillo form: http://www.b4h.net/cabforms/arrlsscw_cab3.php

Mail logs to: November SS CW

ARRL

225 Main St.

Newington, CT 06111

USA

Find rules at: <http://www.arrl.org/sweepstakes>

ARS Spartan Sprint: 0200Z-0400Z, Nov 6

Geographic Focus: North America

Participation: Worldwide

Mode: CW

Bands: 80, 40, 20, 15, 10m

Classes: Skinny

Tubby

Max power: 5 watts

Exchange: RST + (state/province/country) + Power

Work stations: Once per band

Submit logs by: November 8, 2018

E-mail logs to: [spartansprint\[at\]yahoo\[dot\]com](mailto:spartansprint[at]yahoo[dot]com)

Mail logs to: (none)

Find rules at: <http://arsqrp.blogspot.com/2009/02/so-whats-spartan-sprint-and-how-do-i.html>

QRP Fox Hunt: 0200Z-0330Z, Nov 7

Geographic Focus: United States

Participation: Worldwide

Mode: CW

Bands: 40m Only

Classes: Single Op (Fox/Hound)

Max power: 5 watts

Exchange: RST + (state/province/country) + name + power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 0330Z November 8, 2018

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at: http://www.qrpfoxhunt.org/winter_rules.htm

Phone Weekly Test: 0230Z-0300Z, Nov 7

Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name + (state/province/country)

non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO

non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band

Each VE province/territory once per band

Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 0300Z November 9, 2018

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com>

Mail logs to: (none)

Find rules at: http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

CWops Test (CWT): 1300Z-1400Z, Nov 7 and 1900Z-2000Z, Nov 7 and 0300Z-0400Z, Nov 8
Geographic Focus: Worldwide
Participation: Worldwide
Awards: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10m
Classes: Single Op (QRP/Low/High)
Max power: HP: >100 watts
 LP: 100 watts
 QRP: 5 watts
Exchange: Member: Name + Member No./"CWA"
 non-Member: Name + (state/province/country)
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each call once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 0400Z November 10, 2018
Post log summary at: <http://www.3830scores.com>
Mail logs to: (none)
Find rules at: <https://cwops.org/cwops-tests/>

UKEICC 80m Contest: 2000Z-2100Z, Nov 7
Geographic Focus: Europe
Participation: Worldwide
Mode: SSB
Bands: 80m Only
Classes: Single Op Connected (High/Low/QRP)
 Single Op Unconnected (High/Low/QRP)
Max power: HP: 1500 watts
 LP: 100 watts
 QRP: 5 watts
Exchange: 6-Character grid square
QSO Points: 1 point per 500 km (10 pts max)
 multiply QSO points by 2 if low power station
 multiply QSO points by 4 if QRP station
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 2200Z November 7, 2018
E-mail logs to: (none)
Upload log at: <http://logs.ukaiccc.com/cgi-bin/hfenter.pl>
Mail logs to: (none)
Find rules at: <http://www.ukaiccc.com/which-contest/which-contest-ukeicc-80m-contests-rules>

NCCC RTTY Sprint: 0145Z-0215Z, Nov 9
Geographic Focus: North America
Participation: Worldwide
Mode: RTTY
Bands: (see rules)
Classes: (none)
Max power: 100 watts
Exchange: Serial No. + Name + QTH

Score Calculation: Total score = total QSO points x total mults
Submit logs by: November 11, 2018
E-mail logs to: (none)
Post log summary at: <http://www.3830scores.com/>
Mail logs to: (none)
Find rules at: <http://www.ncccsprint.com/rttyns.html>

QRP Fox Hunt: 0200Z-0330Z, Nov 9
Geographic Focus: United States
Participation: Worldwide
Mode: CW
Bands: 80m Only
Classes: Single Op (Fox/Hound)
Max power: 5 watts
Exchange: RST + (state/province/country) + name + power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 0330Z November 10, 2018
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at: http://www.qrpfoxhunt.org/winter_rules.htm

NCCC Sprint: 0230Z-0300Z, Nov 9
Geographic Focus: North America
Participation: Worldwide
Mode: CW
Bands: (see rules)
Classes: (none)
Max power: 100 watts
Exchange: Serial No. + Name + QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: November 11, 2018
E-mail logs to: (none)
Post log summary at: <http://www.3830scores.com/>
Mail logs to: (none)
Find rules at: <http://www.ncccsprint.com/rules.html>

WAE DX Contest, RTTY: 0000Z, Nov 10 to 2359Z, Nov 11
Geographic Focus: Worldwide
Participation: Worldwide
Mode: RTTY
Bands: 80, 40, 20, 15, 10m
Classes: Single Op (High/Low)
Multi-Op
SWL
Max operating hours: Single Op: 36 hours, off times of at least 60 minutes
Multi-Single: 48 hours
Max power: HP: >100 Watts
LP: 100 Watts
Exchange: RST + Serial No.
Work stations: Once per band
Score Calculation: (see rules)
Submit logs by: November 26, 2018

E-mail logs to: (none)
Upload log at: <https://www.dxhf.darc.de/~waerttylog/upload.cgi?form=referat&lang=en>
Mail logs to: (none)
Find rules at: <http://www.darc.de/der-club/referate/referat-conteste/worked-all-europe-dx-contest/en/>

PODXS 070 Club Triple Play Low Band Sprint: 0000Z, Nov 10 to 2359Z, Nov 12

Geographic Focus: Worldwide
Participation: Worldwide
Mode: PSK31
Bands: 160, 80, 40m
Classes: HP/MP/LP/QRP
Max operating hours: 6 hrs per UTC day
Max power: HP: 100 watts
 MP: 50 watts
 LP: 25 watts
 QRP: 5 watts
Exchange: RST + (state/province/country)
Work stations: Once per band
QSO Points: 1 point per QSO on 40m
 2 points per QSO on 80m
 3 points per QSO on 160m
Multipliers: Each state, province and DXCC country once only
Score Calculation: Total score = total QSO points x total mults
Submit logs by: November 19, 2018
E-mail logs to: (none)
Upload log at: <http://hamclubs.info/scorer/>
Mail logs to: (none)
Find rules at: <http://www.podxs070.com/o70-club-sponsored-contests/triple-play-low-band-sprint>

10-10 Int. Fall Contest, Digital: 0001Z, Nov 10 to 2359Z, Nov 11

Mode: Digital
Bands: 10m Only
Classes: QRP
 Low Power
 High Power
 Club
 Mobile
Max power: HP: >150 watts
 LP: 150 watts
 QRP: 5 watts
Exchange: 10-10 Member: Name + 10-10 number + (state/province/country)
 Non-Member: Name + 0 + (state/province/country)
QSO Points: 1 point per QSO with a non-member
 2 points per QSO with a 10-10 member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: November 19, 2018
E-mail logs to: [tentencontest\[at\]ten-ten\[dot\]org](mailto:tentencontest[at]ten-ten[dot]org)
Upload log at: <http://hamclubs.info/scorer/>
Mail logs to: Dan Morris, KZ3T
 3162 Covington Way

Lenoir, NC 28645
USA

Find rules at: <http://www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-rules>

JIDX Phone Contest: 0700Z, Nov 10 to 1300Z, Nov 11

Geographic Focus: Japan

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15, 10m

Classes: Single Op All Band (Low/High)

Single Op Single Band (Low/High)

Multi-Single

Multi-Two

Maritime Mobile

Max power: HP: >100W

LP: 100W

Exchange: JA: RST + Prefecture No.

non-JA: RST + CQ Zone No.

Work stations: Once per band

QSO Points: 4 points per JA-DX QSO on 160m

2 points per JA-DX QSO on 80m

1 points per JA-DX QSO on 40, 20, 15m

2 points per JA-DX QSO on 10m

Multipliers: JA Stations: DXCC countries and CQ zones once per band

non-JA Stations: JA prefectures plus JD1/O, JD1/MT, JD1/OT once per

band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: December 31, 2018

E-mail logs to: [ph\[at\]jidx\[dot\]org](mailto:ph[at]jidx[dot]org)

Mail logs to: JIDX Phone Contest

P.O.Box 22,

Mitaka,

Tokyo 181-8799

Japan

Find rules at: <http://www.jidx.org/jidxrule-e.html>

SARL VHF/UHF FM Contest: 1000Z, Nov 10 to 1000Z, Nov 11

Geographic Focus: Southern Africa

Participation: Southern Africa

Awards: Southern Africa

Mode: SSB

Bands: 50 MHz, 144 MHz, 432 MHz

Classes: Single Operator

Multi-Op

Portable/Field

4-Hour Limited

FM Only

Exchange: RS(T) + 6-character grid locator

Work stations: Once per band

Score Calculation: (see rules)

Submit logs by: December 3, 2018

E-mail logs to: [contest\[at\]sarl\[dot\]org\[dot\]za](mailto:contest[at]sarl[dot]org[dot]za)

Mail logs to: (none)

Find rules at: <http://www.sarl.org.za/Web3/Members/DoDocDownload.aspx?X=201712180812348XdiUz5yFy.PDF>

SKCC Weekend Sprintathon: 1200Z, Nov 10 to 2400Z, Nov 11

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6m

Classes: Single Op (QRP/Low/High)

Multi-Op

Exchange: RST + (state/province/country) + Name + (SKCC No./"NONE")

Work stations: Once per band

QSO Points: 1 point per QSO

Bonus Points: (see rules)

Multipliers: Each state, province, or country once

Score Calculation: Total score = (total QSO points x total mults) + bonus points

Submit logs by: November 18, 2018

Post log summary at: http://www.skccgroup.com/operating_activities/weekend_sprintathon/submit-display.php

Mail logs to: (none)

Find rules at: http://www.skccgroup.com/operating_activities/weekend_sprintathon/

OK/OM DX Contest, CW: 1200Z, Nov 10 to 1200Z, Nov 11

Geographic Focus: OK/OL/OM

Participation: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10m

Classes: Single Op All Band (QRP/Low/High)

Single Op Single Band (Low/High)

Multi-Single

SWL

Max power: HP: 1500 watts

LP: 100 watts

QRP: 5 watts

Exchange: OK/OM: RST + 3-letter district code

non-OK/OM: RST + Serial No.

Work stations: Once per band

QSO Points: OK/OM-Station: 1 point per QSO with EU station

OK/OM-Station: 3 points per QSO with DX station

EU-Station: 1 point per QSO with OK/OM station

DX-Station: 3 points per QSO with OK/OM station

Multipliers: OK/OM-Station: each prefix once per band

non-OK/OM-Station: each OK/OM district once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: November 18, 2018

Upload log at: <http://okomdx.crk.cz/index.php?page=send-log>

Mail logs to: (none)

Find rules at: <http://okomdx.crk.cz/index.php?page=english>

CQ-WE Contest: 1900Z-2300Z, Nov 10 (CW/Digital) and 0100Z-0500Z, Nov 11 (Phone) and 1900Z-2300Z, Nov 11 (Phone) and 0100Z-0500Z, Nov 12 (CW/Digital)

Mode: CW, Phone, Digital

Bands: 160, 80, 40, 20, 15, 10, 6, 2, 432 MHz
Classes: Single Op
Exchange: Name + Location Code (see rules) + Years of Service (see rules)
Work stations: Once per band per mode
QSO Points: Points equal to years of service received in exchange for each QSO
Multipliers: Each location code once per mode
Score Calculation: Total score = sum of (total QSO points x total mults) for each mode
Submit logs by: December 1, 2018
E-mail logs to: (see rules)
Mail logs to: (see rules)
Find rules at: <http://cqwe.cboh.org/rules.html>

AWA Bruce Kelley 1929 QSO Party: 2300Z, Nov 10 to 2300Z, Nov 11 and 2300Z, Nov 17 to 2300Z, Nov 18

Geographic Focus: United States
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20m
Classes: (none)
Max power: 25 watts input
Exchange: RST + Name + QTH + Eqpt Year + Transmitter Type (see rules for format)

+
Input Power(W)
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: January 1, 2019
E-mail logs to: [dgparker2\[at\]wisc\[dot\]edu](mailto:dgparker2@wisc.edu)
Mail logs to: Dave Parker
PO Box 6
Prairie du Sac, WI 53578
USA

Find rules at: <http://www.antiquewireless.org/bruce-kelley-memorial-cw-qso-party.html>

4 States QRP Group Second Sunday Sprint: 0100Z-0300Z, Nov 12

Geographic Focus: North America
Participation: Worldwide
Mode: CW, SSB
Bands: 160, 80, 40, 20, 15, 10m
Classes: Single Op
Max power: CW: 5 watts, SSB: 10 watts
Exchange: Member: RS(T) + (State/Province/Country) + Member No.
Non-member: RS(T) + (State/Province/Country) + Power
Work stations: Once per band
QSO Points: 1 point per QSO with non-member
2 points per QSO with member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: November 14, 2018
E-mail logs to: (none)
Post log summary at: <http://qrpcontest.com/4sqrp>
Mail logs to: (none)

Find rules at: http://www.4sqr.com/SSS/sss_rules.pdf

RSGB 80m Autumn Series, Data: 2000Z-2130Z, Nov 12

Geographic Focus: United Kingdom

Participation: Worldwide

Mode: RTTY, PSK

Bands: 80m Only

Classes: 100W

10W

Exchange: RST + Serial No.

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 2359Z November 15, 2018

Upload log at: <http://www.rsghcc.org/cgi-bin/hfenter.pl>

Mail logs to: (none)

Find rules at: <https://www.rsghcc.org/hf/rules/2018/rautumn.shtml>

NEXT WEEK'S CONTESTS:

AWA Bruce Kelley 1929 QSO Party	2300Z, Nov 10 to 2300Z, Nov
11	
	2300Z, Nov 17 to 2300Z, Nov
18	
QRP Fox Hunt	0200Z-0330Z, Nov 14
Phone Weekly Test	0230Z-0300Z, Nov 14
CWops Test	1300Z-1400Z, Nov 14
	1900Z-2000Z, Nov 14
	0300Z-0400Z, Nov 15
NCCC RTTY Sprint	0145Z-0215Z, Nov 16
QRP Fox Hunt	0200Z-0330Z, Nov 16
NCCC Sprint	0230Z-0300Z, Nov 16
YO International PSK31 Contest	1600Z-2200Z, Nov 16
LZ DX Contest	1200Z, Nov 17 to 1200Z, Nov
18	
All Austrian 160-Meter Contest	1600Z-2359Z, Nov 17
REF 160-Meter Contest	1700Z, Nov 17 to 0100Z, Nov
18	
Feld Hell Sprint	1900Z-2059Z, Nov 17
RSGB 1.8 MHz Contest	1900Z-2300Z, Nov 17
ARRL Sweepstakes Contest, SSB	2100Z, Nov 17 to 0300Z, Nov
19	
Homebrew and Oldtime Equipment Party	1300-1500Z, Nov 18 (40m)
	1500-1700Z, Nov 18 (80m)
Run for the Bacon QRP Contest	0200Z-0400Z, Nov 19

CONTEST LOG SUBMITTAL DEADLINES FOR RECENT CONTESTS

Please consult the individual contest rules to determine what log documentation must be submitted (i.e. summary sheet, dupe sheets, etc.).

Worked All Germany Contest: November 5, 2018

E-mail: (none)

Upload log at: <https://www.dxhf.darc.de/~waglog/upload.cgi?form=referat&lang=en>

Mail: (none)

Find rules at: <http://www.darc.de/der-club/referate/conteste/worked-all-germany-contest/en/rules/>

Stew Perry Topband Challenge: November 5, 2018

E-mail: [tbdc\[at\]kkn\[dot\]net](mailto:tbdc@kkn.net)

Mail: BARC

50335 NW Hayward Rd

Manning, OR 97125

USA

Find rules at: <http://www.kkn.net/stew/>

YLRL DX/NA YL Anniversary Contest: November 6, 2018

E-mail: [ac7uh\[at\]arrl\[dot\]net](mailto:ac7uh@arrl.net)

Mail: Barbara Yasson, AC7UH

13205 NE 5th Ave.

Vancouver, WA 98685

USA

Find rules at: <http://ylrl.org/index.php/contests-and-dx-awards>

SKCC Sprint Europe: November 8, 2018

E-mail summary: (none)

Post web summary: http://www.skccgroup.com/operating_activities/skse/submit-display.php?submit_id=165

Mail: (none)

Find rules at: http://www.skccgroup.com/operating_activities/skse/

UBA ON Contest, 2m: November 11, 2018

E-mail: [ubaon\[at\]uba\[dot\]be](mailto:ubaon@uba.be)

Mail: Leon Welters, ON5WL

Borgstraat 80

B-2580 Beerzel

Belgium

Find rules at: <http://www.uba.be/en/hf/contest-rules/on-contest>

ARRL Sweepstakes Contest, CW: November 12, 2018

E-mail: (none)

Upload log at: <http://contest-log-submission.arrl.org>

Mail: November SS CW

ARRL

225 Main St.

Newington, CT 06111

USA

Web-to-Cab form: http://www.b4h.net/cabforms/arrlsscw_cab3.php

Find rules at: <http://www.arrl.org/sweepstakes>

Pennsylvania QSO Party: November 14, 2018

E-mail: [logs\[at\]paqso\[dot\]org](mailto:logs@paqso.org)

Mail: (none)

Web-to-Cab form: http://www.b4h.net/cabforms/paqp_cab3.php
Find rules at: <http://paqso.org/pa-qso-party-rules.html>

NRAU 10m Activity Contest: November 15, 2018
Upload log at: http://ua9qcq.com/en/submit_log.php?lang=en
Mail: (none)
Find rules at: <http://www.nrau.net/activity-contests/below-30mhz.html>

EANET Sprint: November 18, 2018
E-mail: [eanet-sprint\[at\]fediea\[dot\]org](mailto:eanet-sprint[at]fediea[dot]org)
Mail: (none)
Find rules at: <https://fediea.org/news/?news=20181104>

Argentina National 7 MHz Contest: November 20, 2018
E-mail: (none)
Upload log at:
Mail: (none)
Find rules at: <https://www.lu4aa.org/wp/concursos-nacional-40m/>

Illinois QSO Party: November 22, 2018
E-mail: [n9jff\[at\]arrl\[dot\]net](mailto:n9jff[at]arrl[dot]net)
Mail: WIARC
P.O. Box 3132
Quincy IL 62305-3132
USA
Find rules at: <http://www.w9awe.org/ILQP%202018%20Rules.pdf>

High Speed Club CW Contest: November 25, 2018
E-mail: (none)
Upload log at: <https://sites.google.com/view/hsc-contest>
Mail: (none)
Find rules at: <http://www.highspeedclub.org/>

Silent Key Memorial Contest: December 1, 2018
E-mail: [silentkeyc32\[at\]gmail\[dot\]com](mailto:silentkeyc32[at]gmail[dot]com)
Mail: (none)
Find rules at: <http://www.skmc.hu/en/rules.html>

Ukrainian DX Contest: December 4, 2018
E-mail: [urdx\[at\]ukr\[dot\]net](mailto:urdx[at]ukr[dot]net)
Mail: Ukrainian Contest Club HQ
P.O. Box 4850
Zaporozhye 69118
Ukraine
Web-to-Cab form: http://www.b4h.net/cabforms/ukrainiandx_cab.php
Find rules at: <http://urdx.org/rules.php?english>

Telephone Pioneers QSO Party: December 10, 2018
E-mail: [n6tpjim\[at\]gmail\[dot\]com](mailto:n6tpjim[at]gmail[dot]com)
Mail: Jim Muiter
4233 Wooster Ave.
San Mateo, CA, 94403
USA
Find rules at: <http://www.tpqsos.com/wp-content/uploads/2018/04/TPQSO-2018->

Announcement-1.5.pdf

Zombie Shuffle: December 15, 2018

E-mail: na5n[at]zianet[dot]com

Mail: (none)

Find rules at: <http://www.zianet.com/qrp/ZOMBIE/2018/pg.htm>

ARRL EME Contest: December 25, 2018

E-mail: (upload preferred)

Upload log at: <http://contests.arrl.org/arrlemescoresubmission.php>

Mail: EME Contest

ARRL

225 Main St.

Newington, CT 06111

USA

Find rules at: <http://www.arrl.org/eme-contest>

ARRL EME Contest: December 25, 2018

E-mail: (upload preferred)

Upload log at: <http://contests.arrl.org/arrlemescoresubmission.php>

Mail: EME Contest

ARRL

225 Main St.

Newington, CT 06111

USA

Find rules at: <http://www.arrl.org/eme-contest>

IPARC Contest, CW: December 31, 2018

E-mail: dj6qq[at]darc[dot]de

Mail: Uwe Greggersen, DJ6QQ

Hurststr 9

D-51645 Gummersbach

Germany

Find rules at: <http://www.iparc.de>

IPARC Contest, SSB: December 31, 2018

E-mail: dj6qq[at]darc[dot]de

Mail: Uwe Greggersen, DJ6QQ

Hurststr 9

D-51645 Gummersbach

Germany

Find rules at: <http://www.iparc.de>

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